

## C l a i m s

1. Pressure accumulator, especially a pulsation damper with a pressure accumulator housing (10) and a piston part (28) located therein, a bellows-like separating element (30) being supported with its one end (32) on the piston part (28) and with its other end (34) on the pressure accumulator housing (10), and the separating element (30) separating two working chambers (26, 40) from each other, especially a gas space (26) from a fluid space (40) within the pressure accumulator housing (10), in a fluid-tight, especially gastight, manner, characterized in that one working chamber (26) is filled with a fluid, besides a definable volumetric portion of a working gas.
2. The pressure accumulator as claimed in claim 1, wherein the fluid with which one working chamber (26) with the working gas is filled, is an alcohol, preferably ethylene glycol.
3. The pressure accumulator as claimed in claim 2, wherein the other working chamber (40) is provided with fluid connections (48, 50) by way of which another fluid, especially in the form of diesel fuel or heavy oil, can be delivered into the interior of the pressure accumulator housing (10).
4. The pressure accumulator as claimed in claim 3, wherein the piston part (28) on its side facing the other working chamber (40) has a cavity (56) which is intended for holding the additional fluid.
5. The pressure accumulator as claimed in one of claims 1 to 4, wherein the piston part (28) at least over part of its possible path is movably guided along parts (42) of the pressure accumulator housing (10), preferably in its cover part (14), with a definable radial distance.

6. The pressure accumulator as claimed in one of claims 3 to 5, wherein the piston part (28) on its side facing the fluid connection (48, 50) is provided with a stop (58) for striking the inside wall (60) of the pressure accumulator housing (10).
7. The pressure accumulator as claimed in claim 6, wherein the piston part (28) on its end opposite the stop (58) is provided with a stop surface (62) for striking another inside wall (64) of the pressure accumulator housing (10), preferably formed by the cover part (14).
8. The pressure accumulator as claimed in one of claims 1 to 7, wherein the bellows-like separating element (30) consists of a metal bellows, with a plurality of individual folds (38) located on top of one another.
9. The pressure accumulator as claimed in one of claims 3 to 8, wherein the fluid connections (48, 50) run within the pipe union (46) of the pressure accumulator housing (10) and within this pipe union (46) discharge into its common antechamber (52).
10. The pressure accumulator as claimed in one of claims 5 to 9, wherein the piston part (28), at least along one part of its possible path, borders an annular gap (44) which forms the radial distance and via which the working gas with one fluid travels to the inside of the bellows-like separating element (30).